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☐ AddView: INPADOC | Jump to: Top ☐ Go to: Derwent☐ Email this to a friendTitle: **JP04126374A2: SECONDARY BATTERY**Derwent Title: Secondary battery has positive electrode, negative electrode comprising carbon material with low silicon content, and non-aqueous electrolyte
[Derwent Record]

Country: JP Japan

Kind: A (See also: JP03133318B2)

Inventor: FUJIMOTO MASAHISA;
YOSHINAGA NORIYUKI;
FURUKAWA SANEHIRO;Assignee: SANYO ELECTRIC CO LTD
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Published / Filed: 1992-04-27 / 1990-09-18

Application Number: JP1990000249496

IPC Code: Advanced: H01M 4/02; H01M 4/58; H01M 10/40;
Core: H01M 10/36; more...
IPC-7: H01M 4/02; H01M 4/58; H01M 10/40;

Priority Number: 1990-09-18 JP1990000249496

Abstract: PURPOSE: To restrain a battery from self-discharge reaction and improve the self life by using carbon material containing limited silicon element for the battery which is provided with a positive electrode, a negative electrode formed of carbon material with cation storing and discharging operation and nonaqueous electrolyte.

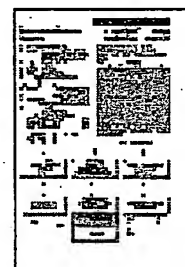
CONSTITUTION: A battery is provided with a positive electrode 4, a negative electrode 5 formed of carbon material with cation storing discharging operation and nonaqueous electrolyte. The carbon material contains limited silicon element. The carbon material is selected out of heat-treated carbon with high polymer such as polyacrylonitrile burned, various types of coke, graphite, and amorphous carbon such as acetylene black, containing the silicon element, preferably 10% or less for the self life of the battery. It is thus possible to restrain the battery from self-discharge reaction and improve the self life of the battery.

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Family: Show 2 known family members



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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6706447	2004-03-16	Gao; Yuan	FMC Corporation, Lithium Division	<u>Lithium metal dispersion in secondary battery anodes</u>
	US6171725	2001-01-09	Suzuki; Atsushi	Kao Corporation	<u>Negative electrode material for non-aqueous secondary battery</u>

Other Abstract
Info:

CHEMABS 117(16)154563G CAN117(16)154563G DERABS C92-238036 DERC92-238036

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Title: JP10223259A2: LITHIUM SECONDARY BATTERY AND MANUFACTURE THEREOF

Derwent Title: Lithium secondary battery manufacture for portable telephone - involves injecting organic electrolyte and short circuiting metal lithium and anode
[Derwent Record]

Country: JP Japan

Kind: A

Inventor: KOJIMA YOSHITSUGU;
KOIWA AKIHIKO;
SUZUKI NOBUAKI;
SHIMIZU YOSHIHIRO;
YAMAMOTO SATOSHI;

Assignee: TOYOTA CENTRAL RES & DEV LAB INC
[News, Profiles, Stocks and More about this company](#)

Published / Filed: 1998-08-21 / 1997-02-03

Application Number: JP1997000035634

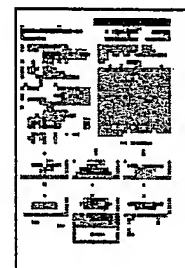
IPC Code: Advanced: H01M 4/02; H01M 10/40;
Core: H01M 10/36; more...
IPC-7: H01M 4/02; H01M 10/40;

Priority Number: 1997-02-03 JP1997000035634

Abstract: PROBLEM TO BE SOLVED: To provide a lithium secondary battery with easy production process, easy initial charge, high voltage, high capacity, and its manufacturing method.
SOLUTION: A lithium secondary battery has a positive electrode 2, using a lithium manganese oxide as a positive active material, a negative electrode 3 using a carbon material as a negative active material, an organic electrolyte in which a lithium salt is dissolved, and a battery can 8 in which they are housed. The manufacturing method is that metallic lithium 7 is arranged in the battery can 8, the organic electrolyte is poured therein, the metallic lithium 7 and the positive electrode 2 are short-circuited, lithium equivalent to the irreversible capacity of the negative electrode 3 is introduced into the positive electrode 2 as a lithium introduction process, the initial charge is conducted between the positive electrode 2 and the negative electrode 3 to make the battery in an initial charging state.
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Family: None

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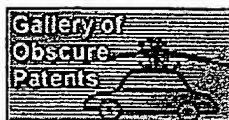
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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6706447	2004-03-16	Gao; Yuan	FMC Corporation, Lithium Division	Lithium metal dispersion in secondary battery anodes

Other Abstract
Info:

CHEMABS 129(13)163939J CAN129(13)163939J DERABS C98-512128 DERC98-512128

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